



## PURIFYING APPARATUS

### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention:

The present invention relates to a purifying apparatus for flowing water. In more detail, the invention relates to a purifying apparatus that operates by oxidation and decomposition of water pollution substances in a river, which is effective for use such as elimination of nitrogen and phosphorous which are substances that cause eutrophication of the flowing river water.

#### 2. Description of the Related Art:

Hitherto, in regard to a purification of the water pollution substances in the river, although a contact oxidation method by a biological membrane having a membrane in which microbes living in the river naturally grow has been developed and applied, this method is suitable mainly to purify carbon sources contained in waste water, but it is not suitable to eliminate nitrogen and phosphorous which are substances that cause eutrophication.

Therefore, in the prior art, in order to prevent the eutrophication it has been necessary to decompose and eliminate nitrogen and phosphorous other than the carbon sources, so that the biological membrane treatment method is not necessarily sufficient. Further, there have been studied countermeasures

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